

SUBSTITUTE SEQUENCE LISTING



Ana-o-2 SEQS.ST25.txt
SEQUENCE LISTING

<110> Florida State University Research Foundation, Inc.
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Teuber, Suzanne S.
Sathe, Shridahr K.
Robotham, Jason M.

<120> Nucleic Acid And Allergenic Polypeptides Encoded Thereby In
Cashew Nuts (*Anacardium occidentale*)

<130> File No. 32376PCT

<150> US 60/423,556

<151> 2002-11-04

<160> 27

<170> PatentIn version 3.3

<210> 1

<211> 1374

<212> DNA

<213> *Anacardium occidentale*

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gaaaagggtg tgctatacaa aaatgctcta gtgctgccac actggaacct caactcgcac 1020
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 agagtgttcg acggcgaagt ccgcgagggg cagatgttgg tggtgccaca aaactttgca 1140
 gtagtgaac gtgcaagaga ggaaagattc gaatggattt ctttcaagac caatgatcgg 1200
 gccatgacga gtcctctcgc tggacgcacc tcggtgcttg gtggcatgcc agaggaagtg 1260
 ttagccaatg cgttccagat ctcaagagaa gatgctagga agatcaagtt caacaatcag 1320
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 gatagtctct gctgtgagag gggagaagaa agcagggagc agagagcaga gagcttgtat 180
 gtagttaagt taatattact actactacta ctacgatgtg'aatgaactct tgatgagttc 240
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<210> 3
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 <212> PRT
 <213> Anacardium occidentale

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Gln Glu Trp Gln Gln Gln Asp Glu Cys Gln Ile Asp Arg Leu Asp Ala
 20 25 30

Leu Glu Pro Asp Asn Arg Val Glu Tyr Glu Ala Gly Thr Val Glu Ala
 35 40 45

Trp Asp Pro Asn His Glu Gln Phe Arg Cys Ala Gly Val Ala Leu Val
 50 55 60

Arg His Thr Ile Gln Pro Asn Gly Leu Leu Leu Pro Gln Tyr Ser Asn
 65 70 75 80

Ala Pro Gln Leu Ile Tyr Val Val Gln Gly Glu Gly Met Thr Gly Ile
 85 90 95

Ser Tyr Pro Gly Cys Pro Glu Thr Tyr Gln Ala Pro Gln Gln Gly Arg
 100 105 110

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Gln Gln Gly Gln Ser Gly Arg Phe Gln Asp Arg His Gln Lys Ile Arg
115 120 125

Arg Phe Arg Arg Gly Asp Ile Ile Ala Ile Pro Ala Gly Val Ala His
130 135 140

Trp Cys Tyr Asn Glu Gly Asn Ser Pro Val Val Thr Val Thr Leu Leu
145 150 155 160

Asp Val Ser Asn Ser Gln Asn Gln Leu Asp Arg Thr Pro Arg Lys Phe
165 170 175

His Leu Ala Gly Asn Pro Lys Asp Val Phe Gln Gln Gln Gln Gln His
180 185 190

Gln Ser Arg Gly Arg Asn Leu Phe Ser Gly Phe Asp Thr Glu Leu Leu
195 200 205

Ala Glu Ala Phe Gln Val Asp Glu Arg Leu Ile Lys Gln Leu Lys Ser
210 215 220

Glu Asp Asn Arg Gly Gly Ile Val Lys Val Lys Asp Asp Glu Leu Arg
225 230 235 240

Val Ile Arg Pro Ser Arg Ser Gln Ser Glu Arg Gly Ser Glu Ser Glu
245 250 255

Glu Glu Ser Glu Asp Glu Lys Arg Arg Trp Gly Gln Arg Asp Asn Gly
260 265 270

Ile Glu Glu Thr Ile Cys Thr Met Arg Leu Lys Glu Asn Ile Asn Asp
275 280 285

Pro Ala Arg Ala Asp Ile Tyr Thr Pro Glu Val Gly Arg Leu Thr Thr
290 295 300

Leu Asn Ser Leu Asn Leu Pro Ile Leu Lys Trp Leu Gln Leu Ser Val
305 310 315 320

Glu Lys Gly Val Leu Tyr Lys Asn Ala Leu Val Leu Pro His Trp Asn
325 330 335

Leu Asn Ser His Ser Ile Ile Tyr Gly Cys Lys Gly Lys Gly Gln Val
340 345 350

Gln Val Val Asp Asn Phe Gly Asn Arg Val Phe Asp Gly Glu Val Arg
355 360 365

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Glu Gly Gln Met Leu Val Val Pro Gln Asn Phe Ala Val Val Lys Arg
370 375 380

Ala Arg Glu Glu Arg Phe Glu Trp Ile Ser Phe Lys Thr Asn Asp Arg
385 390 395 400

Ala Met Thr Ser Pro Leu Ala Gly Arg Thr Ser Val Leu Gly Gly Met
405 410 415

Pro Glu Glu Val Leu Ala Asn Ala Phe Gln Ile Ser Arg Glu Asp Ala
420 425 430

Arg Lys Ile Lys Phe Asn Asn Gln Gln Thr Thr Leu Thr Ser Gly Glu
435 440 445

Ser Ser His His Met Arg Asp Asp Ala
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<212> PRT
<213> Anacardium occidentale

<400> 4

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<210> 5
<211> 15
<212> PRT
<213> Anacardium occidentale

<400> 5

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<210> 6
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<212> PRT
<213> Anacardium occidentale

<400> 6

Ser Arg Gln Glu Trp Gln Gln Gln Asp Glu Cys Gln Ile Asp Arg
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<210> 7
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<212> PRT
<213> Anacardium occidentale

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Ana-o-2 SEQS.ST25.txt

<400> 7

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<211> 15

<212> PRT

<213> Anacardium occidentale

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<210> 9

<211> 15

<212> PRT

<213> Anacardium occidentale

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Tyr Gln Ala Pro Gln Gln Gly Arg Gln Gln Gly Gln Ser Gly Arg
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<210> 10

<211> 15

<212> PRT

<213> Anacardium occidentale

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<210> 11

<211> 15

<212> PRT

<213> Anacardium occidentale

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<210> 12

<211> 15

<212> PRT

<213> Anacardium occidentale

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Ala Ile Pro Ala Gly Val Ala His Trp Cys Tyr Asn Glu Gly Asn
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<210> 13

<211> 15

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Ana-o-2 SEQS.ST25.txt

<212> PRT

<213> Anacardium occidentale

<400> 13

Leu Asp Arg Thr Pro Arg Lys Phe His Leu Ala Gly Asn Pro Lys
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<210> 14

<211> 15

<212> PRT

<213> Anacardium occidentale

<400> 14

Val Phe Gln Gln Gln Gln Gln His Gln Ser Arg Gly Arg Asn Leu
1 5 10 15

<210> 15

<211> 15

<212> PRT

<213> Anacardium occidentale

<400> 15

Arg Leu Ile Lys Gln Leu Lys Ser Glu Asp Asn Arg Gly Gly Ile
1 5 10 15

<210> 16

<211> 15

<212> PRT

<213> Anacardium occidentale

<400> 16

Lys Val Lys Asp Asp Glu Leu Arg Val Ile Arg Pro Ser Arg Ser
1 5 10 15

<210> 17

<211> 15

<212> PRT

<213> Anacardium occidentale

<400> 17

Val Ile Arg Pro Ser Arg Ser Gln Ser Glu Arg Gly Ser Glu Ser
1 5 10 15

<210> 18

<211> 15

<212> PRT

<213> Anacardium occidentale

<400> 18

Glu Glu Ser Glu Asp Glu Lys Arg Arg Trp Gly Gln Arg Asp Asn
1 5 10 15

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 <212> PRT
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<400> 19

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 1 5 10 15

<210> 20
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 <212> PRT
 <213> Anacardium occidentale

<400> 20

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 1 5 10 15

<210> 21
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 <212> PRT
 <213> Anacardium occidentale

<400> 21

Leu Asn Ser His Ser Ile Ile Tyr Gly Cys Lys Gly Lys Gly Gln
 1 5 10 15

<210> 22
 <211> 15
 <212> PRT
 <213> Anacardium occidentale

<400> 22

Gln Asn Phe Ala Val Val Lys Arg Ala Arg Glu Glu Arg Phe Glu
 1 5 10 15

<210> 23
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 <212> PRT
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<400> 23

Ala Arg Glu Glu Arg Phe Glu Trp Ile Ser Phe Lys Thr Asn Asp
 1 5 10 15

<210> 24
 <211> 15
 <212> PRT
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<400> 24

SUBSTITUTE SEQUENCE LISTING

Ana-o-2 SEQS.ST25.txt

Pro Glu Glu Val Leu Ala Asn Ala Phe Gln Ile Ser Arg Glu Asp
1 5 10 15

<210> 25
<211> 15
<212> PRT
<213> Anacardium occidentale

<400> 25

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<210> 26
<211> 28
<212> DNA
<213> Escherichia coli

<400> 26
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<210> 27
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